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Figure 1

Group Fixed-point Multiply

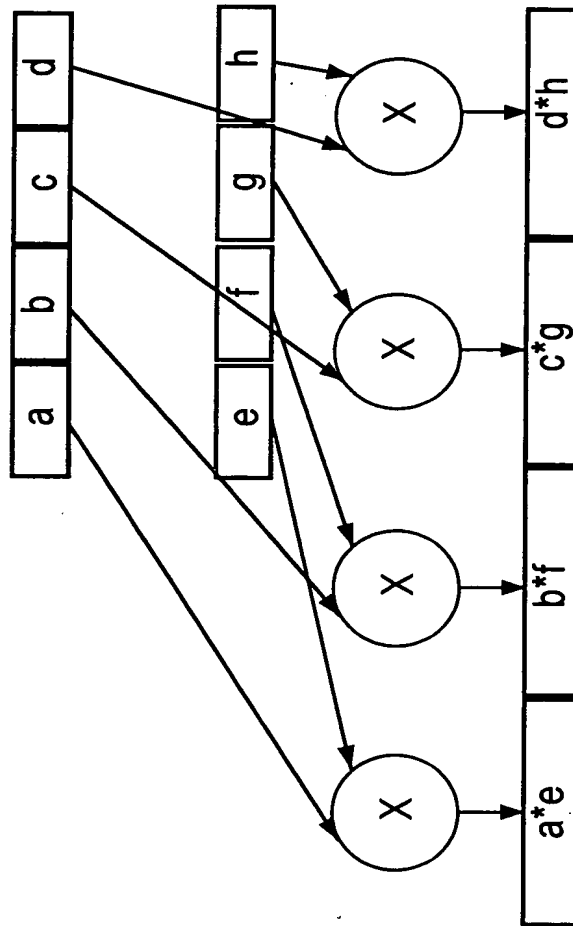


Figure 2

Group Fixed-point Multiply and Add

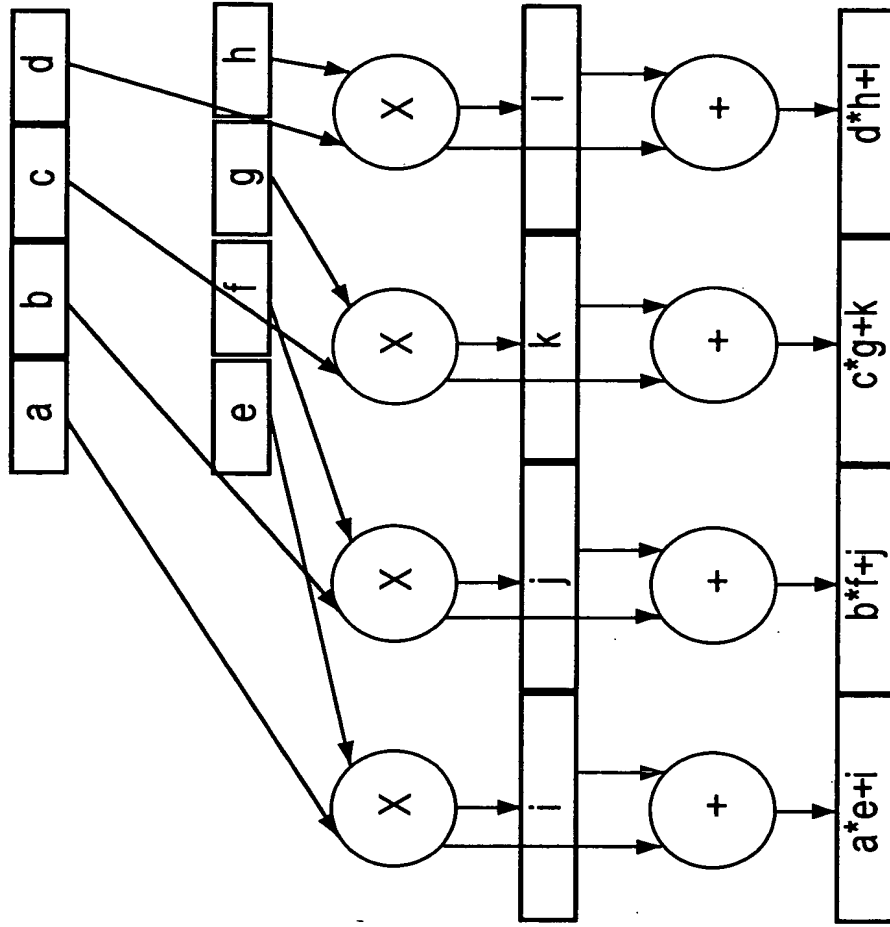


Figure 3

Group Floating-point Multiply

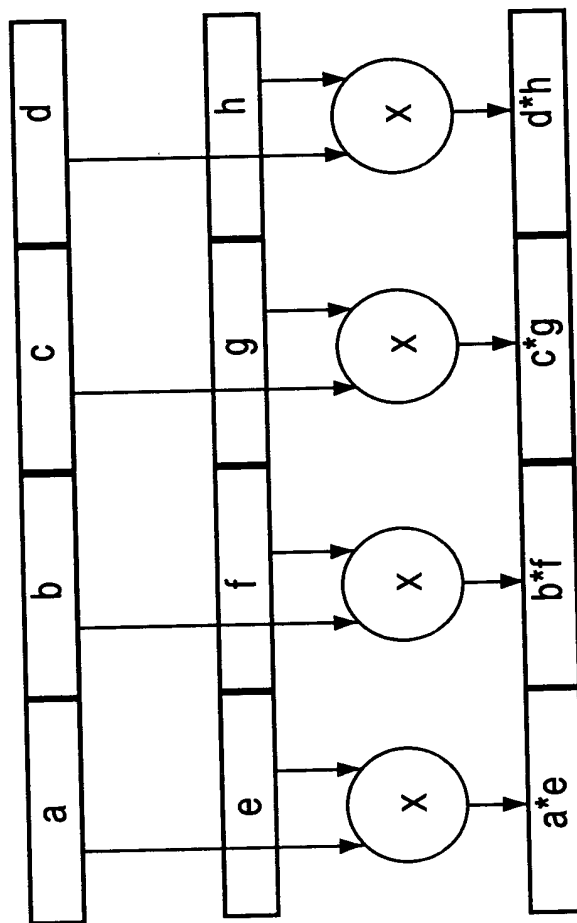


Figure 4

Group Floating-point Multiply and Add

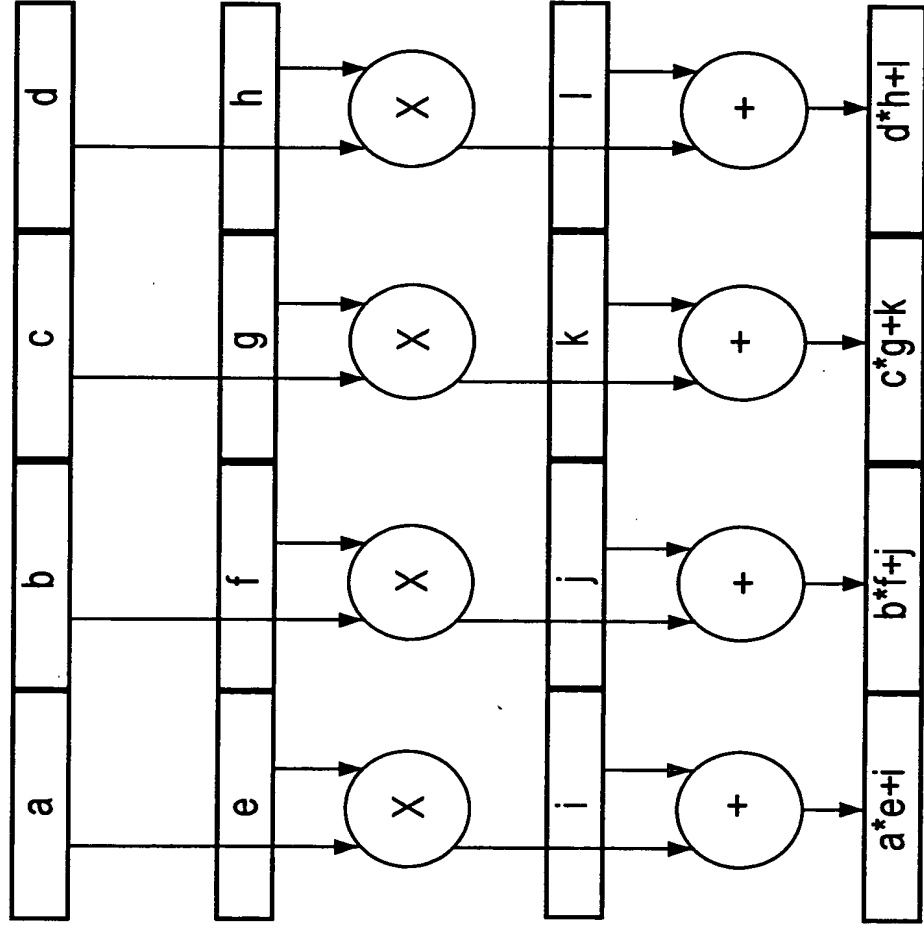


Figure 5A

Group Floating-point Multiply and Sum

- Group Multiply and Sum: 64/128 bits := 128*128 bits
- symbol sizes of 1, 2, 4, 8, 16, 32, 64 bits

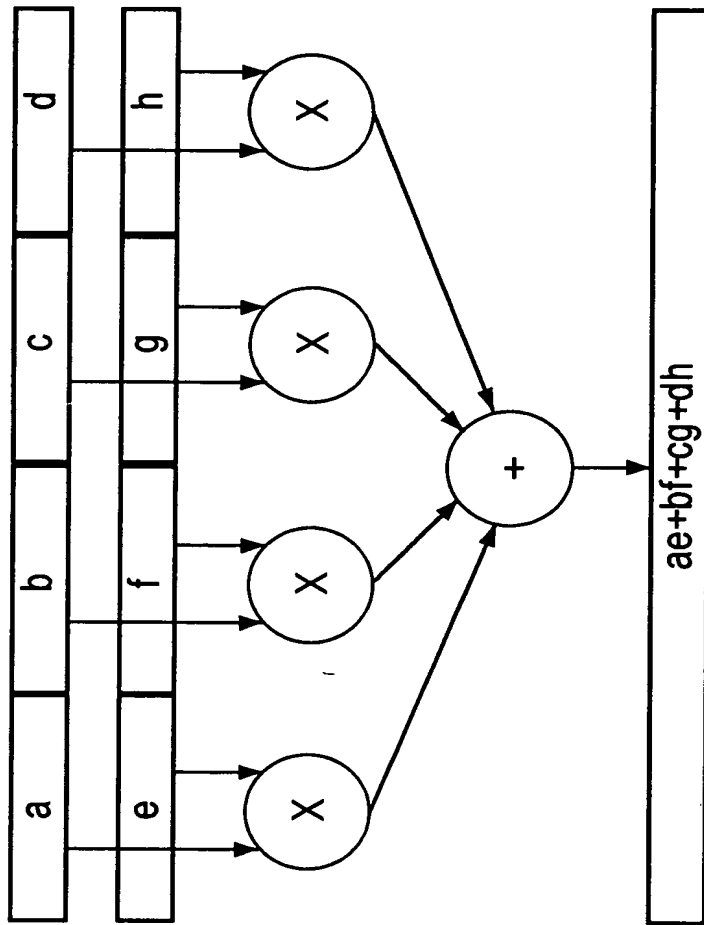


Figure 5B

Group Floating-point Multiply and Sum

- Group Multiply and Sum: 64/128 bits := 128*128 bits
- symbol sizes of 1, 2, 4, 8, 16, 32, 64 bits

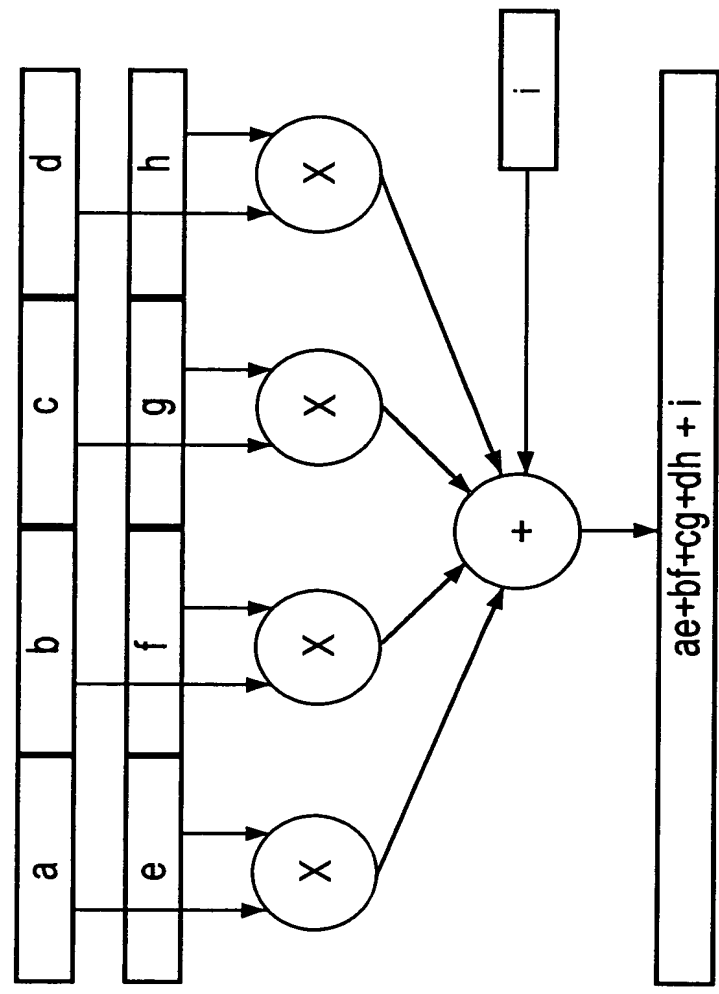


Figure 6

Group Floating-point Multiply and Sum

- Group Multiply and Sum: 64/128 bits := 128*128 bits
- symbol sizes of 16, 32, 64 bits

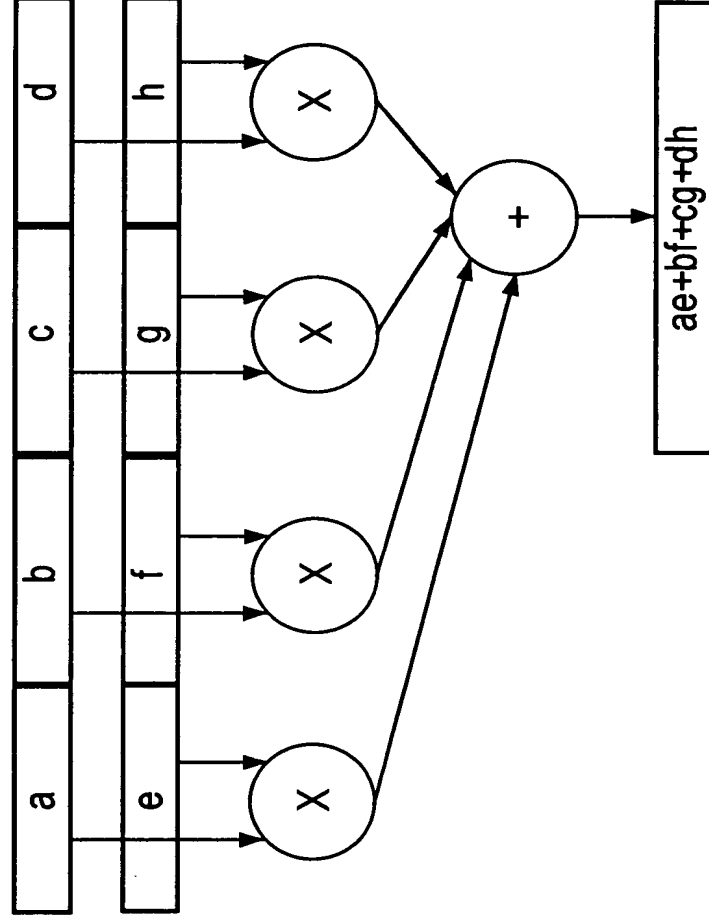
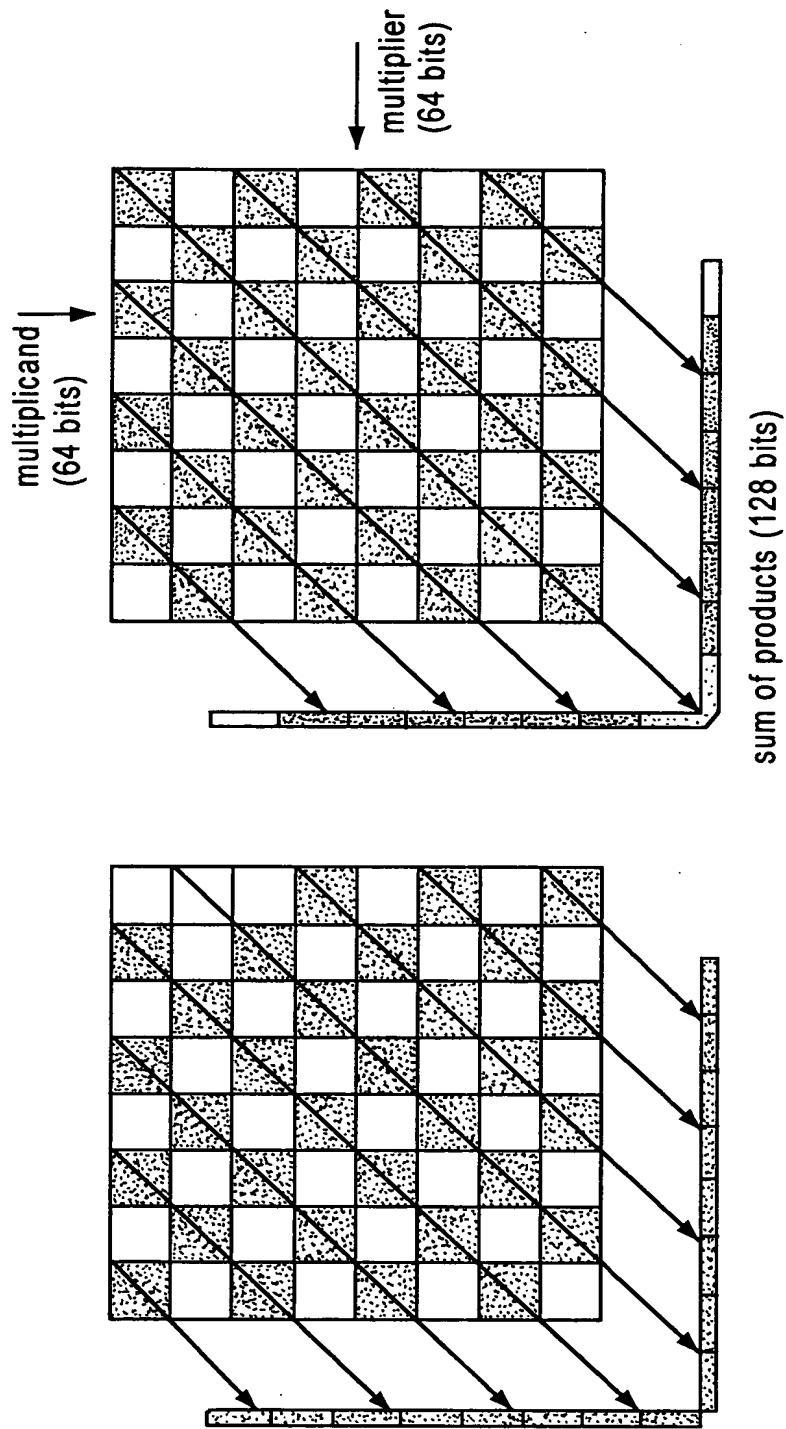


Figure 7

Group Convolve

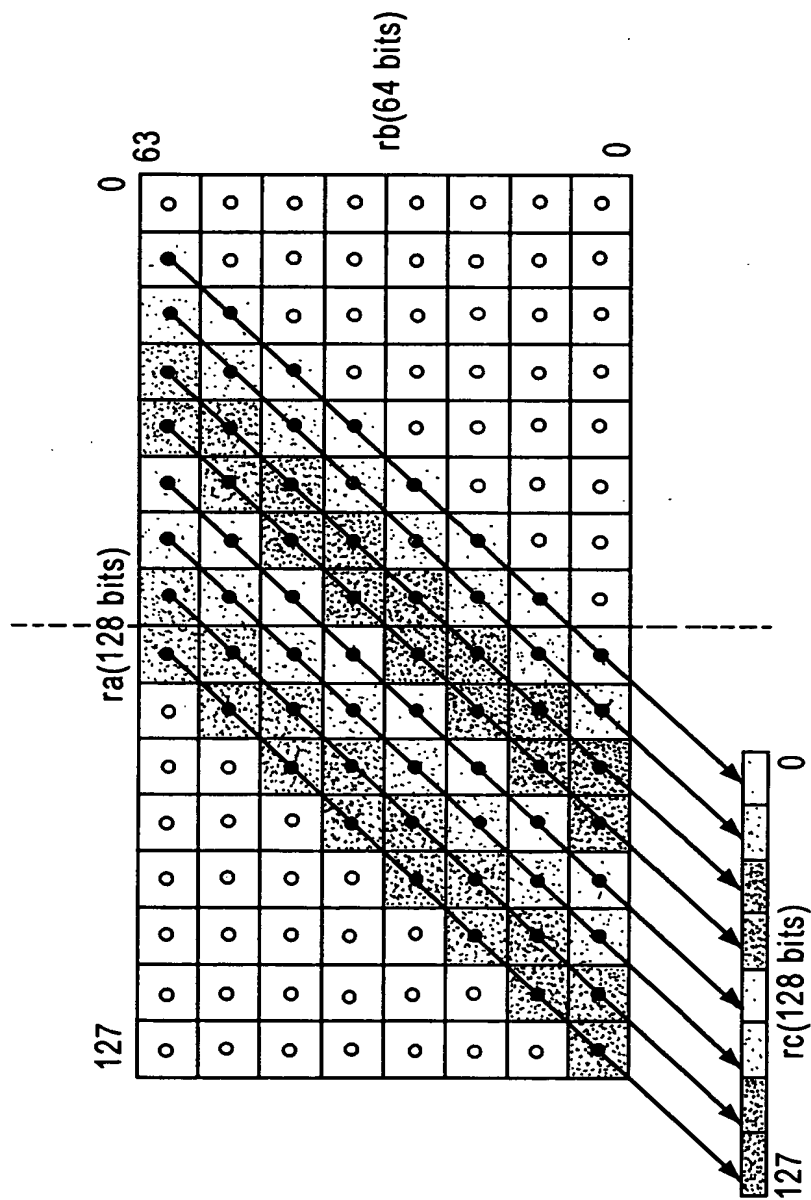
- Group Convolve: 128 bits := $64 * 64$ bits
- symbol sizes of 1, 2, 4, 8, 16, 32 bits



Group Fixed-point Convolve

- Group Convolve: 128 bits := 128 * 64 bits
- sizes of 1, 2, 4, 8, 16, 32 bits
- signed and unsigned

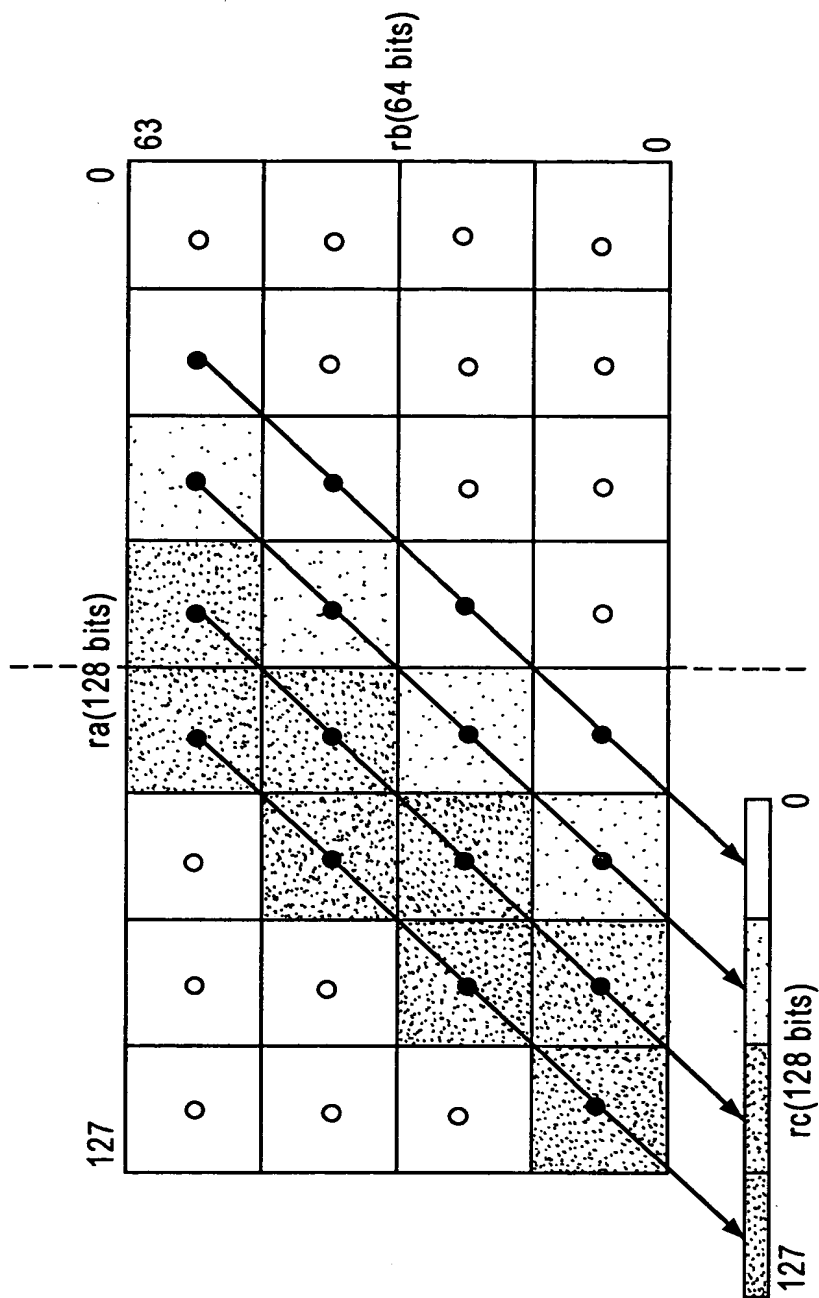
Figure 8



Group Fixed-point Convolve

Figure 9

- Group Convolve: 128 bits := 128 * 64 bits
- symbol size of 16 bits shown



Group Floating-point Convolve

Figure 10

- Group Convolve: 64 bits := 128 * 64 bits
- sizes of 16, 32 bits

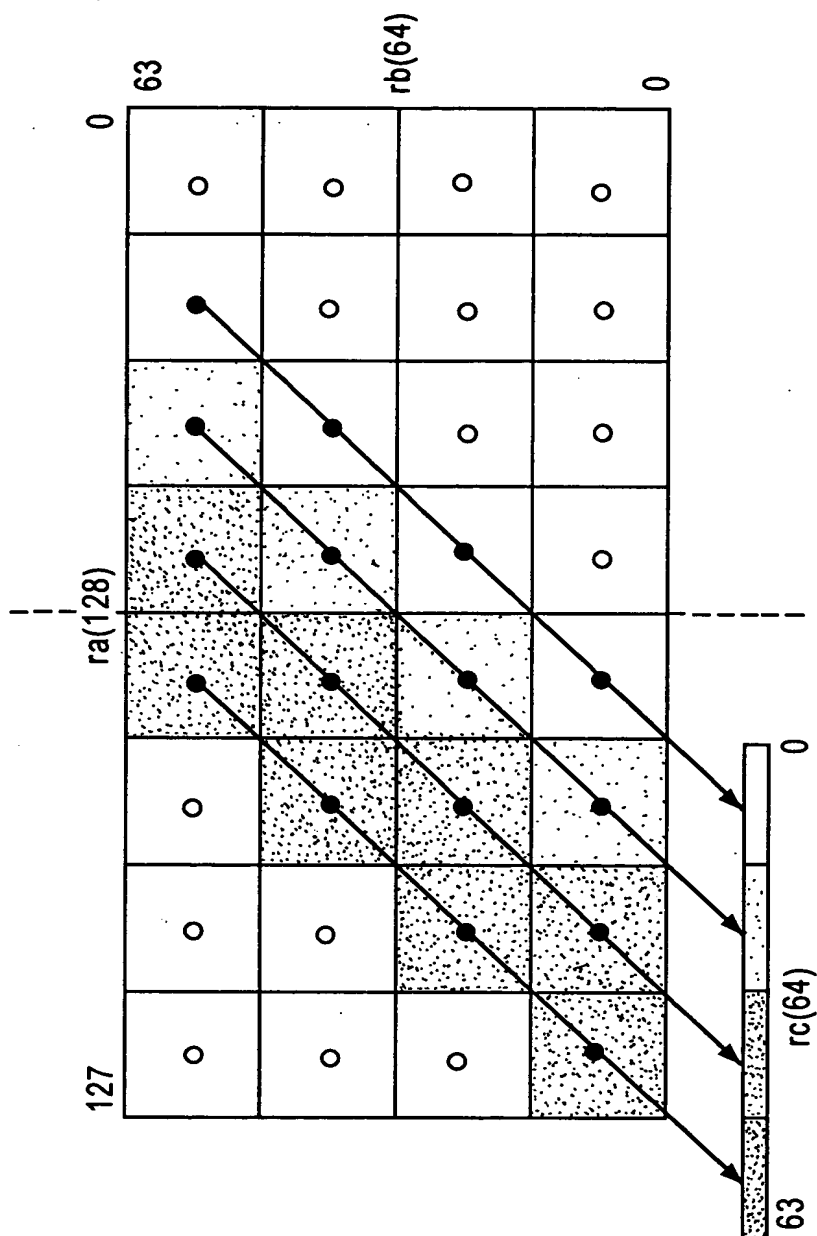


Figure 11

Group Integer Multiply

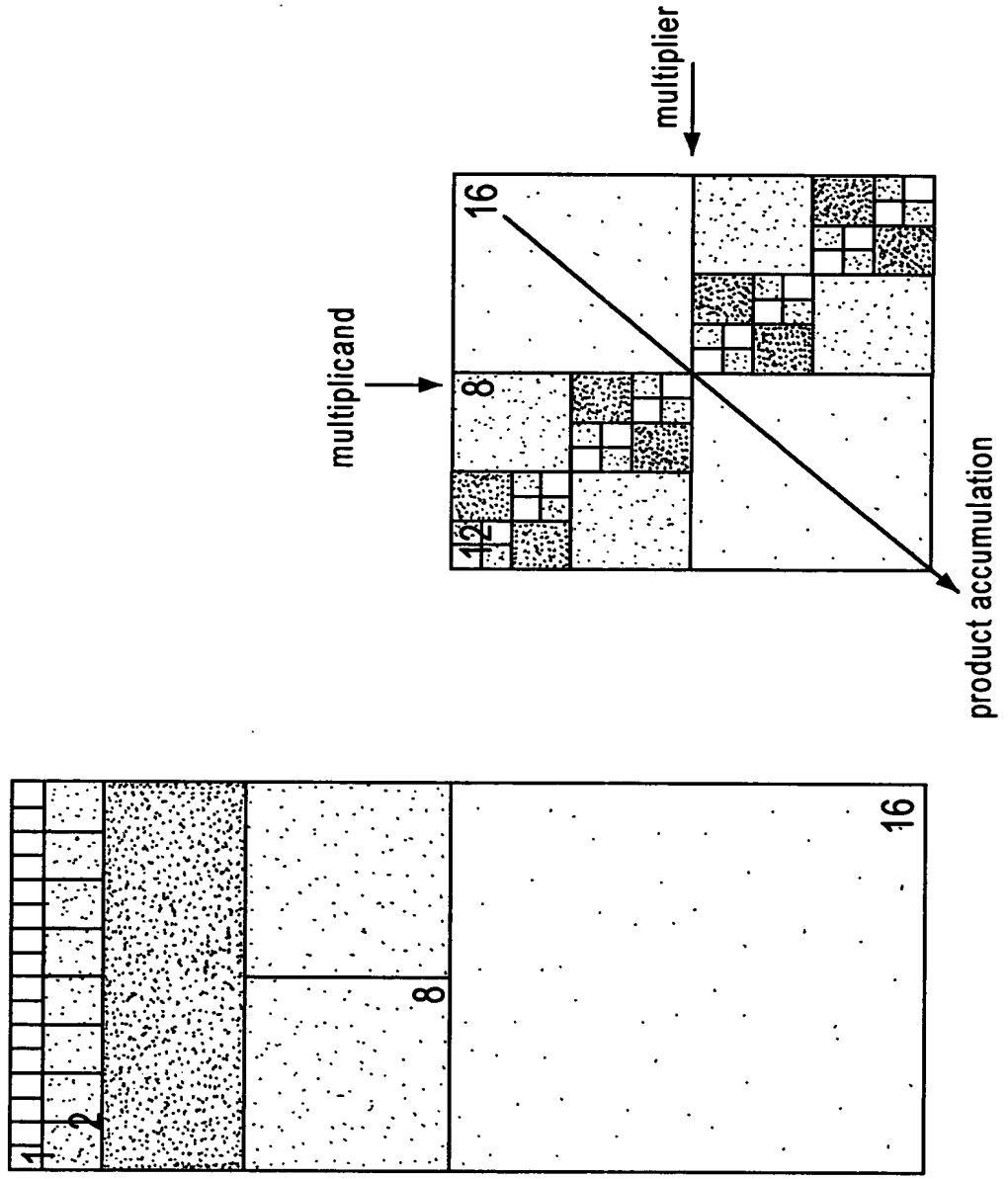




Figure 12

Group Multiply-and-sum

